

## Audrey Magoun

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**From:** "Malin Aronsson" <malin.aronsson@slu.se>  
**To:** "Audrey Magoun" <amagoun@ptialaska.net>; <222wsheridan@gmail.com>  
**Cc:** "Malin Aronsson" <malin.aronsson@slu.se>  
**Sent:** Monday, March 25, 2013 9:20 AM  
**Attach:** 2011 Perssonomslagside,1-44.pdf  
**Subject:** Second try...  
 Here is the old email... Sending one report in this email and the other one in a new email.

Hi Audrey,

There are den sites found outside of “the snow model” during the last years. Every year there is an extensive search for wolverine dens within the reindeer husbandry area (northern half of Sweden) because the number of den sites is the base for the compensation payment system to the reindeer herders for damages caused by wolverines and the den inventory are also the basis for the population estimation. This den-site inventory has been going on since 1996. I attached to reports (both in Swedish unfortunately) that show the distribution of wolverine den sites in Sweden (we usually report den sites over a three year period because of the varying reproductive success for females). The first document (Persson and Broseth) reports the population development 1996 – 2010 and you find the den sites (with a 20 km buffer zone) in figure 1a-e. The red colour just means that there are more den sites within the buffer zones. The second document (Aronsson and Persson) is a report where we try to summarise the information we have about wolverines in the “forest areas” outside of “traditional wolverine area” (mountains and forest close to the mountains). Figure 2 shows the documented den sites (from the national inventory) with a 20 km buffer zone (blue). The red line is our definition of the limit for “traditional wolverine areas” based on land use, vegetation, the mountain range and reindeer herding practices. We classify the den sites found to the east of that line as being outside of traditional wolverine areas. Our red line matches “the snow model” pretty well in the southern half of the Swedish wolverine distribution and if you compare Copelands paper with the maps in the two reports you can see that there are quite a few den sites outside of the snow model in recent years. The blue triangles in figure 3 shows the number of documented den sites east of our red line, most of these den sites are found in the southern half of the wolverine distribution and hence outside of the snow model. From 2008 and to today 12-15% of the den sites have been found east of the red line (10-18/year and it looks like a majority of those are outside of the snow model, in the area where it says “Sweden” in figure 4 in Copelands paper). But still a majority of the total den sites (90-110/year) are found inside the snow model. As for distances den sites are found from just outside the snow model to approximately 140 km outside of the snow model (rough estimates because I don’t have a GIS layer of the snow model).

We have not captured any wolverines yet ☐. But they have visited the traps a couple of times so we are still hoping. We finished setting up 6 camera stations last week and they will be on until we get back from fieldwork in the north in the end of April. So far I have some photos of one big wolverine (think it is a male). He has spots on the right side of his chest and photos I have got from local people shows that he has been in the area since at least 2010. We are at a carnivore conference in Sweden right now and there are lots of participants from the County Administrative Boards (that manages wildlife in Sweden) and I have to tell you that you have a fan club here from the field personnel from the County Administrative Boards. Some of them have your book and have tried your camera-stations on their own. We had a meeting yesterday to try to coordinate the use of camera-stations in 2 counties and today Jens said that one more county wants to join.

/Malin

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Malin Aronsson

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Från: Audrey Magoun [amagoun@ptialaska.net]

Skickat: den 25 mars 2013 17:14

Till: Malin Aronsson

Ämne: Re: Getting close...

No, I didn't get them. Perhaps send them to both of my emails

[amagoun@ptialaska.net](mailto:amagoun@ptialaska.net)

[222ws Sheridan@gmail.com](mailto:222ws Sheridan@gmail.com)

thanks much

----- Original Message -----

From: "Malin Aronsson" <[malin.aronsson@slu.se](mailto:malin.aronsson@slu.se)>

To: "Audrey Magoun" <[amagoun@ptialaska.net](mailto:amagoun@ptialaska.net)>

Sent: Monday, March 25, 2013 12:07 AM

Subject: Re: Getting close...

There is just one, the black on the side is rubber as snow and ice protection.

I did send the papers the day after I sent the first email (1,5 weeks ago), you did not get them??? They are big files, I'll send them again, separate emails this time.

/Malin

Skickat från min iPhone

25 mar 2013 kl. 01:16 skrev "Audrey Magoun" <[amagoun@ptialaska.net](mailto:amagoun@ptialaska.net)>:

- > Hope one of them don't trigger it while the other is up on the side like
- > that!!! Have you tried putting a few small pieces of bait outside the
- > trap, tied down with cable?
- >
- > Did you try to resend those papers you told me about?
- > thanks

> Audrey  
> ----- Original Message ----- From: "Malin Aronsson"  
> <[malin.aronsson@slu.se](mailto:malin.aronsson@slu.se)>  
> To: <[amagoun@ptialaska.net](mailto:amagoun@ptialaska.net)>  
> Sent: Sunday, March 24, 2013 2:30 PM  
> Subject: Getting close...  
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>  
> ... Very close...  
>  
> / Malin and Jens  
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> -----  
> No virus found in this message.  
> Checked by AVG - [www.avg.com](http://www.avg.com)  
> Version: 2013.0.2904 / Virus Database: 2641/6202 - Release Date: 03/24/13

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